Under the Paperwork	Reduction Act of 1995, no persons are require	red to respo	nd to a collection of ir	iformation unles	ss it disp	lays a valid OMB control number.				
	UTILITY		Attorney Docket No. Not Yet Assigned							
	NT APPLICATION	· · · · · · · · · · · · · · · · · · ·	ventor Yongming XIA et al.							
	RANSMITTAL		Title "Vertical Filter"							
(Only for new nonprovi	sional applications under 37 C.F.R. 1.53(b),) Expres	ss Mail Label No.	EL 69438722:						
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.			ADDRESS TO: Commissioner For Patents Mail Stop Patent Application P.O. Box 1450 Alexandria VA 22313-1450							
Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing)			7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)							
2. Applicant claims small entity status. See 37 CFR 1.27.			8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)							
3. X Specification [Total Pages 14 (preferred arrangement set forth below)			a. Computer Readable Form (CRF)							
	tive title of the invention	b. Specification Sequence Listing on:								
	- Cross Reference to Related Applications			i. CD-ROM or CD-R (2 copies); or						
	nt Regarding Fed sponsored R & D									
	ce to sequence listing, a table, nputer program listing appendix		ii.	paper						
- Background of the Invention			c. Statements verifying identity of above copies							
	immary of the Invention escription of the Drawings (if filed)		ACCOMPANYING APPLICATION PARTS							
Detailed Description Claim(s)			9. X Assi	gnment Paper	s (cover	r sheet & doc(s)) (COPY)				
, ,	t of the Disclosure			R 3.73(b) Star there is an as		Power of Attorney				
4. X Drawing(s) (35 U.S.C. 113) [Total Sheets 6]			11. English Translation Document (if applicable)							
5. Oath or Declarat	tion [Total Pages	3]	12. X Information Disclosure Statement (IDS)/PTO-1449 X Copies of IDS Citations							
 a. Newly executed (original or copy) b. X Copy from a prior application (37 CFR 1.63(d)) 			13. X Prelim	ninary Amend n Receipt Post	ment					
l i	or continuation/divisional with Box 18 comp		(Should	ld be specifica	illy item	nized)				
i. DELETION OF INVENTOR(S) Signed statement attached deleting				ied Copy of Pr						
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).			(if foreign priority is claimed) Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.							
6. Application Data Sheet. See 37 CFR 1.76					he amo	unt of \$912.00 for fee.				
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:										
Continuation X Divisional Continuation-in-part (CIP) of prior application No: 10/237,554 Prior application information: Examiner Robert J. Popovics Art Unit: 1724										
Prior application information: Examiner Robert J. Popovics Art Unit: 1724 For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied										
under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.										
			DENCE ADDRES			- F				
X Customer Number or Bar Code Label [28289 Or Correspondence address below (Insert Customer No. or Attach bar code label here)										
Name	John W. McIlvaine									
Name	Webb Ziesenheim Logsdon Orki	n & Hans	son, P.C.							
	700 Koppers Building									
Address	436 Seventh Avenue									
City	Pittsburgh	State	PA	7:- 0	'ad-	15219				
	III.ia. I State	State	412-471-8815	Zip C		 				
Country Name (Print/Type)	John W. McIlvaine	phone	Registration No.	(Attorney/Acce	Fax	412-471-4094 34,219				
(Intelliante		I regionation No.	(Alwiney/Agen	u) I.	J4,217 I				

Signature

Date September 17, 2003

This collection of information & required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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FEE TRANSMITTAL	Complete if Known								
for FY 2003		Application Number			Not Yet Assigned				
	Filing Date			Herewith					
Effective 01/01/2003. Patent fees are subject to annual revision.	First Named Inventor			entor	Yongming XIA et al.				
Applicant claims small entity status. See 37 CFR 1.27	Examiner Name			Not Yet Assigned					
	Art Unit			Not Yet Assigned					
TOTAL AMOUNT OF PAYMENT (\$912.00)	Attorney Docket No.				2541-031411				
METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)							
X Check Credit Card Money Order Other None	3. ADDITIONAL FEES								
Deposit Account:	Large	e Entity	Small	Entity					
Deposit 22.0650	Fee	Fee	Fee	Fee	-				
Account Number	Code	(\$)	Code	(\$)	•			Fee Paid	
Deposit	1051	130	2051	65	_	e - late filing fee o			
Account Name 20			2052	25	Surcharge - late provisional filing fee or cover sheet				
The Commissioner is authorized to: (check all that apply)	1053	130	1053	130	Non-English specification				
Charge fee(s) indicated below X Credit any overpayments	1812	2,520	1812	2,520	For filing a request for ex parte reexamination				
Charge any additional fee(s) during the pendency of this application Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action				
FEE CALCULATION	1805	1,840*	1805	1,840*			SIR after Examiner		
1. BASIC FILING FEE	1251	110	2251	55		for reply within	first month		
Large Entity Small Entity	1252	410	2252	205	Extension for reply within second month				
Fee Fee Fee Fee Code (S) Fee Description Fee Paid	1253	930	2253	465	Extension for reply within third month				
Code (\$) Code (\$) Fee Description Fee Paid 1001 750 2001 375 Utility filing fee \$750.00	1254	1,450	2254	725	Evtonoion	for reply within t	fourth month		
1002 330 2002 165 Design filing fee	1254	1,970	2255	985	Extension for reply within fourth month Extension for reply within fifth month				
1003 520 2003 260 Plant filing fee	1401	320	2401	160	Notice of Appeal				
1004 750 2004 375 Reissue filing fee	1402	320	2402	160	Filing a brief in support of an appeal				
1005 160 2005 80 Provisional filing fee	1403	280	2403	140	Request for oral hearing			——— I	
SUBTOTAL (1) (\$750.00)	1451	1,510 110	1451 2452	1,510 55	Petition to institute a public use proceeding Petition to revive - unavoidable				
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1452	1,300	2452	650	Petition to revive - unintentional				
Fee from	1501	1,300	2501	650	Utility issue fee (or reissue)				
Extra Claims below Fee Paid Total Claims 29 -20** = 9 X \$18.00 = \$162.00	1502	470	2502	235	Design issue fee				
Independent $1 - 3** = 0$ X $$42.00$ = $$0.00$	1503	630	2503	315	Plant issue fee		Ì		
Claims									
Multiple Dependent \$0 = \$162.00	1460	130	1460	130	Petitions to the Commissioner				
Large Entity Small Entity Fee Fee Fee Fee	1807	50	1807	50	Processing fee under 37 CFR 1.17(q) Submission of Information Disclosure Stmt		<u> </u>		
Code (\$) Fee Description	1806	180	1806	180					
1202 18 2202 9 Claims in excess of 20	8021	40	8021	40	Recording each patent assignment per property (times number of properties)				
1201 84 2201 42 Independent claims in excess of 3	1809	750	2809	375	Filing a submission after final rejection (37 CFR 1.129(a))				
1203 280 2203 140 Multiple dependent claim, if not paid	1810	750	2810	375	For each additional invention to be examined (37 CFR 1.129(b))				
1204 84 2204 42 **Reissue independent claims over original patent	1801	750	2801	375	Request for Continued Examination (RCE)				
1205 18 2205 9 **Reissue claims in excess of 20 and over original patent	1802 900 1802 900 Request for expedited examination of a design application								
SUBTOTAL (2) (\$162.00)	Other f	fee (specify)							
**or number previously paid, if greater; For Reissues, see above *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (5)									
SUBMITTED BY Complete (if applicable)									
Name (Print/Type) John W. McIlvaine		Registration No. (Attorney/Agent) 34,219 Telephone 412-471-8815				1 - 27 - 1			
Signature		(Autorney/Agent)				Date	September 17, 2003		

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:	ATTORNEY'S DOCKET NUMBER				
Yongming XIA, James E. THOMPSON and Jeffrey S. DEVINE	d 2541-031411				
ENTITLED					
VERTIC	CAL FILTER				
Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450					
EXPRESS MA	IL CERTIFICATE				
"Express Mail" Label Number <u>EL6943872</u>	25US				
Date of Deposit September 1	7, 2003				
I hereby certify that the following atta	ched paper or fee				
FEE TRANSMITTAL I PRELIMINARY A SPECIFICA DRAWII DECLARATION AND POWI ASSIGNME INFORMATION DISCLOSURE STAT	ION TRANSMITTAL (1 p. in trip.); FOR FY 2003 (1 p. in trip.); MENDMENT (8 pp.) TION (14 pp.); NGS (6 pp.); ER OF ATTORNEY (3 ppCopy) NT (4 ppCopy) EMENT AND FORM PTO/SB/08A (4 pp.) OUNT OF \$912.00 FOR FEE.				
is being deposited with the United States Posta service under 37 C.F.R. §1.10 on the date indic for Patents, P.O. Box 1450, Alexandria, VA 2	I Service "Express Mail Post Office to Addressee" cated above and is addressed to the Commissioner 22313-1450.				
	Polly J. Moyles person mailing paper or fee) erson mailing paper or fee)				

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